

PATENT

Case Docket No. TRIPEP.23AUSC2

Date: December 10, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Sallberg et al.
Appl. No. : 10/719,619
Filed : November 20, 2003
For : VACCINES CONTAINING
RIBAVIRIN AND METHODS
OF USE THEREOF
Examiner : Unknown
Group Art Unit : Unknown

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December 10, 2003

(Date)

Eric S. Furman, Ph.D., Reg. No. 45,664

TRANSMITTAL LETTER

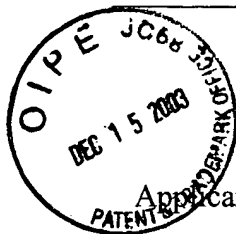
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 in seven (7) pages listing one hundred fifty-two (152) references, seven (7) of which are enclosed.
- (X) The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

Eric S. Furman, Ph.D.
Registration No. 45,664
Attorney of Record
Customer No. 20,995
(619) 235-8550

**INFORMATION DISCLOSURE STATEMENT**

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Dear Sir:

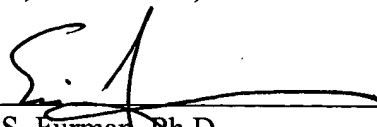
Enclosed is form PTO-1449 listing a total of 152 references. The seven (7) references listed on sheet 1 are enclosed. The remaining references listed on sheets 2 through 7, numbered 1 through 145 are of record in U.S. patent application No. 10/104,966, filed March 22, 2002, which is the parent of this application and is relied upon for an earlier filing date under 35 U.S.C. § 120. Accordingly, copies of references listed on sheets 2 through 7, numbered 1 through 145 are not submitted pursuant to 37 C.F.R. § 1.98(d).

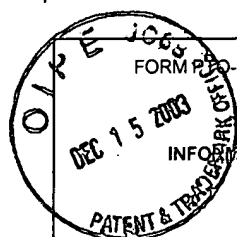
This Information Disclosure Statement is being filed within three months of the filing date of this application and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1), (b)(2), or (b)(4).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 12/10/03

By: 
Eric S. Furman, Ph.D.
Registration No. 45,664
Attorney of Record
Customer No. 20,995
(619) 235-8550



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Sallberg et al.FILING DATE
November 20, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	6,653,125	11/25/03	Donnelly et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	2.	WO 98/37180	08/27/98	WIPO				
	3.	WO 99/04008	01/28/99	WIPO				
	4.	WO 99/28482	06/10/99	WIPO				
	5.	WO 01/38360	05/31/01	WIPO				
	6.	WO 01/96875	12/20/01	WIPO				

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INITIAL

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	7.	Hahm et al., "NS3-4A of Hepatitis C Virus is a Chymotrypsin-Like Protease," Journal of Virology, The American Society for Microbiology, 69(4):2534-2539 (1995).

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U.S. PATENT DOCUMENTS

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	1	4,946,778	08/07/90	Ladner et al.			
	2	4,950,647	08/21/90	Robins et al.			
	3	5,350,671	09/27/94	Houghton et al.			
	4	5,371,017	12/06/94	Houghton et al.			
	5	5,372,928	12/13/94	Miyamura et al.			
	6	5,585,258	12/17/96	Houghton et al.			
	7	5,589,466	12/31/96	Felgner et al.			
	8	5,597,691	01/28/97	Houghton et al.			
	9	5,670,152	09/23/97	Weiner et al.			
	10	5,670,153	09/23/97	Weiner et al.			
	11	5,679,342	10/21/97	Houghton et al.			
	12	5,683,864	11/04/97	Houghton et al.			
	13	5,698,390	12/16/97	Houghton et al.			
	14	5,712,087	01/27/98	Houghton et al.			
	15	5,712,088	01/27/98	Houghton et al.			
	16	5,712,145	01/27/98	Houghton et al.			
	17	5,714,596	02/03/98	Houghton et al.			
	18	5,728,520	03/17/98	Weiner et al.			
	19	5,756,312	03/26/98	Weiner et al.			
	20	5,766,845	06/16/98	Weiner et al.			
	21	5,767,097	06/16/98	Tam			
	22	5,856,437	01/05/99	Miyamura et al.			
	23	5,863,719	01/26/01	Houghton et al.			
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	25	5,885,799	03/23/99	Houghton et al.			
	26	5,932,556	08/03/99	Tam			
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	29	5,968,775	10/18/99	Houghton et al.			
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U.S. PATENT DOCUMENTS

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	31	6,027,729	02/22/00	Houghton et al.			
	32	6,056,961	05/02/00	Lavie et al.			
	33	6,060,068	05/09/00	Doyle et al.			
	34	6,063,380	05/16/00	Chedid et al.			
	35	6,063,772	05/16/00	Tam			
	36	6,071,693	06/06/00	Cha et al.			
	37	6,074,816	06/13/00	Houghton et al.			
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	40	6,096,541	08/01/00	Houghton et al.			
	41	6,130,326	10/10/00	Ramasamy et al.			
	42	6,150,087	11/21/00	Chien			
	43	6,150,337	11/21/00	Tam			
	44	6,171,782	01/09/01	Houghton et al.			
	45	6,190,864	02/20/01	Cha et al.			
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	47	6,214,583	04/10/01	Cha et al.			
	48	6,235,888	05/22/01	Pachuk et al.			
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	50	6,297,370	10/02/01	Cha et al.			
	51	6,303,292	10/16/01	Weiner et al.			
	52	6,312,889	11/06/01	Houghton et al.			
	53	6,514,731	02/04/03	Valenzuela et al.			
	54	6,541,011	04/01/03	Punnonen et al.			
	55	6,555,114	04/29/03	Leroux-Roels et al.			
	56	2002/0004048	01/10/02	Ralston et al.			
	57	2002/0165172 A1	11/07/02	Sällberg et al.			
	58	2002/0183508 A1	12/05/02	Maertens et al.			
	59	2002/0187945 A1	12/12/02	Tam			
	60	2003/0007977	01/09/03	Wheeler et al.			

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	61	2003/0008274	01/09/03	Maertens et al.			
	62	2003/0032005	02/13/03	Maertens et al.			
	63	2003/0044774	03/06/03	Valenzuela et al.			
	64	2003/0064360	04/03/03	Maertens et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	65	EP 0 388 232	09/19/90	European Patent Office				
	66	EP 0 414 475	02/27/91	European Patent Office				
	67	WO 91/15575	10/17/91	WIPO				
	68	WO 92/19743	11/12/92	WIPO				
	69	WO 93/00365	01/07/93	WIPO				
	70	WO 93/06126	04/01/93	WIPO				
	71	WO 94/16737	08/07/94	WIPO				
	72	EP 0 450 931	06/12/96	European Patent Office				
	73	WO 96/28162	09/19/96	WIPO				
	74	WO 97/12043	04/03/97	WIPO				
	75	EP 0 543 924	06/18/97	European Patent Office				
	76	WO 97/26883	07/31/97	WIPO				
	77	WO 98/16184	04/23/98	WIPO				
	78	WO 98/16186	04/23/98	WIPO				
	79	EP 0 842 947	05/20/98	European Patent Office				
	80	WO 98/30223	07/16/98	WIPO				
	81	EP 0 693 687	07/28/99	European Patent Office				
	82	EP 0 556 292	12/29/99	European Patent Office				
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	84	EP 1 034 785	09/13/00	European Patent Office				
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							YES	NO
	86	EP 0 398 748	01/09/02	European Patent Office				
	87	WO 02/13855	02/21/02	WIPO				
	88	WO 02/14362	02/21/02	WIPO				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	89	AASLD Abstracts 940, "Hepatitis C Virus NS5A Sequence Conifrugation does not Predict Response to Induction Interferon Plus Ribavirin," <i>Hepatology</i> , p. 394A (2000).
	90	Abrignani et al., "Perspectives for a vaccine against hepatitis C virus," <i>Journal of Hepatology</i> , 31: (suppl. 1):259-263 (1999).
	91	Bartenschlager et al., "Substrate Determinants for Cleavage in cis and in trans by the Hapatitis C Virus NS3 Proteinase," <i>Journal of Virology</i> , pp. 198 - 205, (1995).
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	93	Chen et al., "Detection of Hepatitis C Virus RNA in the Cell Fraction of Saliva Before and After Oral Surgery," <i>J. Med. Virol.</i> , 43:223-226 (1995).
	94	Chiang et al., "Enhancement of hepatitis C virus core antigen-specific type 1 T helper cell response by ribavirin correlates with the increased level of IL-2," <i>Vaccine Strategies Against Microbial Pathogens</i> , 42.11-42.16, p. A949 (date unknown).
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	96	Cramp et al., "Hepatitis C Virus-Specific T-Cell Reactivity During Intereron and Ribavirin Treatment in Chronic Hepatitis C," <i>Gastron. Enterol.</i> , 118:346-355 (2000)
	97	Encke et al., "DNA Vaccines," <i>Intervirolgy</i> , 42:117-124, (1999)
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	99	Diepolder et al., "Possible mechanism involving T-lymphocyte response to non-structural protein 3 in viral clearance in acute hepatitis C virus infection," <i>Lancet</i> , 346(8981):1006-1007.
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	102	Gordon et al., "Immune responses to hepatitis C virus structural and nonstructural proteins induced byplasmid DNA immunizations," <i>Journal of Infectious Diseases</i> , 181(1):42-50.
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	106	Hultgren et al., <i>J. Gen. Virol.</i> , 79:2381-2391 (1998)
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EXAMINER

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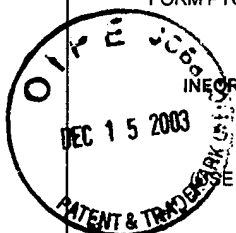
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Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	109	Kato, "Genome of human hepatitis C virus (HCV): gene organization, sequence diversity, and variation," <i>Microb. Com. Genomics</i> , 5(3):129-151 (2000).
	110	Kumar et al, "Sequence, expression and reconstitution of an HCV genome from a British isolate derived from a single blood donation," <i>Journal of Viral Hepatitis</i> , 7:459-465 (2000).
	111	Kwong et al., "Hepatitis C virus NS3/4A protease," <i>Antiviral Res.</i> , 41(1):67-84 (1999).
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	114	Li et al., "Role of the guanosine triphosphatase Rac2 in T helper 1 cell differentiation," <i>Science</i> , 288:2219-2222 (2000).
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	118	Memar O. et al., "Antiviral Agents in Dermatology; Current Status and Future Prospects," <i>International Journal of Dermatology</i> , 34(9):597-606 (1995).
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	128	Sällberg, "A Hepatitis C Virus Non-Structural NS3/4A Fusion Gene," U.S. Patent Application Serial No. 09/930,591, filed August 15, 2001.
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	132	Smith et al., "Molecular Engineering of the <i>Autographa californica</i> Nuclear Polyhedrosis Virus Genome: Deletion Mutations Within the Polyhedrin Gene," <i>Journal of Virology</i> , 46:584 (1983).
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	135 Takeda et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," <i>Nature</i> , 314:452-454 (1985).
	136 Tam et al., "The Immunomodulatory effects of ribavirin: Recent findings," <i>International Antiviral News</i> , 7/6:99 – 100 (1999) (ABSTRACT).
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	140 Walsh et al., "Update on chronic viral hepatitis," <i>Postgrad Medical Journal</i> , 77(910):498-505 (2001).
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